THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A compound of the formula (I):

$$R_1$$
 CH CH_2 $CH_$

wherein R_1 and R_2 are each independently C_1 - C_4 alkyl, and m is 1, 2, 3, 4, or 5.

- 10 2. A compound according to claim 1, wherein the group R_1R_2CH is 4-methyl-pent-2-yl.
 - 3. A composition comprising at least two compounds of formula (II):

wherein R_1 and R_2 are each independently C_1 - C_4 alkyl, and n is an integer ≥ 0 and wherein the average molar value of n for the total of the compounds of formula (II) in said composition is in the range of 1 to 3.

- 4. A composition according to claim 3 wherein the average molar value of n is in the range of 1 to 2.
- 5. A composition according to claim 4 wherein the average molar value of n is about 25 1.7.
 - 6. A composition according to claim 3 or claim 4 wherein R₁R₂CH- is 4-methyl-pent-2-yl.

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- 7. A composition according to any one of claims 3 to 6, wherein the compound of formula (II) where n=0 comprises less than 15% by weight of the total composition.
- 5 8. A composition according to claim 7, wherein the compound of formula (II) where n=0 comprises less than 10% by weight of the total composition.
 - 9. A composition according to claim 7 or claim 8, wherein the compound of formula (I) where n=0 comprises less than or equal to 6.5% by weight of the total composition.
 - 10. A composition according to any one of claims 3 to 9, wherein the total combined weight of compounds where n=0 and n=1 is such that the closed-cup flash point of said composition is greater than 65°C.
- 15 11. A composition according to any one of claims 3 to 10, wherein the total weight of compounds of formula (I) where n is greater than 4 is less than 20% of the combined total of compounds of formula (I).
- 12. A composition according to any one of claims 3 to 11 which further comprises 20 other additives.
 - 13. A method of preparing a composition comprising at least two compounds of formula (II):

$$R_1$$
 CH CH_2 $CH_$

wherein R₁ and R₂ are each independently C₁-C₄ alkyl, and n is an integer ≥0, and wherein the average molar value of n for the total of the compounds of formula (II) in said composition is in the range of 1 to 3, said method comprising;

reacting an excess of C3-C9 secondary alcohol with ethylene oxide in the presence

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of a catalyst in an ethoxylation vessel to form a mixture of two or more compounds of formula (II), separating at least a portion of unreacted secondary alcohol from the mixture recycling the unreacted secondary alcohol back to the ethoxylation vessel.

- 5 14. A-method according to claim 13, wherein the C₃-C₉ secondary alcohol is 4-methyl-2-pentanol.
- 15. A method according to claim 13 or claim 14 wherein the unreacted secondary alcohol is removed by distillation to provide a composition comprising unreacted secondary alcohol in an amount of less than 15% by weight of the total composition.
 - 16. A method according to claim 15, wherein unreacted secondary alcohol comprises less than 10% by weight of the total composition.
- 15 17. A method according to claim 15 or claim 16, wherein the unreacted secondary alcohol comprises less than or equal to 8% by weight of the total composition.
- 18. A method according to claim 13 comprising a distillation step to remove from the composition compounds of formula (II) wherein n=0 and n=1 such that the closed-cup flash point of said composition is greater than 65°C.
 - 19. A method according to any one of claims 14 to 17 wherein total weight of compounds of formula (II) where n is greater than 4 in said composition is less than 20% of the combined total of the compounds of formula (II) in the composition.
 - 20. A method according to any one of claims 13 to 18, wherein the ethylene oxide to C_3 - C_9 secondary alcohol ratio is kept below 70 wt% in said ethoxylation vessel.
 - 21. A method according to claim 20, wherein the ratio is kept below 10 wt%.
 - 22. A method according to any one of claims 13 to 20, wherein the catalyst is an alkali

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metal or alkaline earth metal base catalyst or a Lewis or Bronsted acid catalyst.

- 23. A method according to any one of claims 13 to 21, wherein the catalyst is a Narrow Range Ethoxylation catalyst.
- 24. A method according to claim 22, wherein the alkali metal catalyst is potassium hydroxide.
- 25. A method of preparing a compound of formula (I) according to claim 1, comprising reacting a C₃-C₉ secondary alcohol with ethylene oxide in the presence of a catalyst, and isolating the compounds from the reaction mixture by distillation.
 - 26. Use of a composition according to any one of claims 3 to 12 in the recovery of clean coal in a froth flotation process.
 - 27. Use of a composition according to claim 26, wherein the froth flotation process is performed in a Microcel[®].
- 28. Use of a composition according to claim 26, wherein the froth flotation process is performed in a Jameson[®] cell.
 - 29. Use of a composition according to claim 26 wherein the froth flotation process is performed in an EKOF® cell.
- 25 30. Use of a composition according to any one of claims 3 to 12 to lower surface tension and to improve the performance of dissolved air flotation.
 - 31. Use of a composition according to any one of claims 3 to 12 in the recovery and concentration of desirable minerals or selective removal of undesirable minerals by flotation.

- 32. Use of a composition according to any one of claims 3 to 12 in the recovery of sulphide minerals by flotation.
- 33. Use of a composition according to any one of claims 3 to 12 for refining mineral or 5—coal by froth flotation.
 - 34. Use of a composition according to any one of claims 3 to 12 as a solvent/co-solvent for formulation of dyes, oils, resins and other industrial products.
- 10 35. Use of a composition according to any one of claims 3 to 12 for coupling of polar organic compounds with hydrocarbon liquids.
 - 36. Use of a composition according to any one of claims 3 to 12 as a diluent for hydraulic fluids.